

Operating and installation instructions



Frost free fridge freezer with dynamic cooling KFN 8452 SD

To avoid the risk of accidents or damage to the appliance, it is **essential** to read these instructions before it is installed or used for the first time. en - GB

M.-Nr. 06 642 440

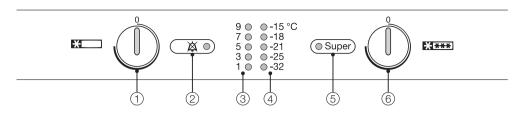
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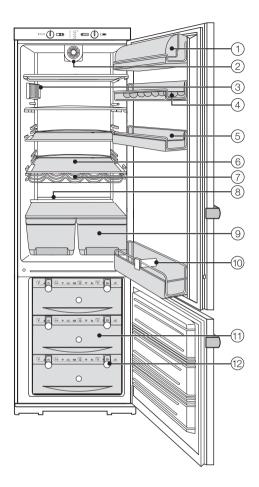
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Description of the the appliance



- Refrigerator section On/Off and temperature dial
- Alarm off button and indicator light
- Refrigerator section temperature display
- (4) Freezer section temperature display
- Super freeze button and indicator light
- (6) Master dial for switching the whole appliance on and off and for selecting the temperature of the freezer section

- ① Butter and cheese compartment
- Oynamic cooling fan with On/Off switch
- Interior lighting
- Egg tray
- ⑤ Door shelf
- 6 Shelf
- ⑦ Bottle rack
- Condensate channel and drain hole
- (9) Fruit and vegetable containers
- 10 Bottle divider *
- (1) Freezer drawers with freezer calendar
- 12 Marker system for frozen food
- * depending on model



Disposal of the packing material

The transport and protective packing has been selected from materials which are environmentally friendly for disposal, and can normally be recycled.

Ensure that any plastic wrappings, bags etc. are disposed of safely and kept out of the reach of babies and young children. Danger of suffocation!

Rather than just throwing these materials away, please ensure that they are recycled.

Disposal of your old appliance

Electrical and electronic appliances often contain materials which, if handled or disposed of incorrectly, could be potentially hazardous to human health and to the environment. They are, however, essential for the correct functioning of your appliance. Please do not therefore dispose of your old appliance with your household waste.

Please dispose of it at your local community waste collection / recycling centre or contact your dealer for advice. Ensure that it presents no danger to children while being stored for disposal.

It should be unplugged or disconnected from the mains electricity supply by a competent person.



Take care not to damage the pipework at the back of it before or during transportation to an authorised collection depot.

In this way, refrigerant in the pipework and oil in the compressor will be contained, and will not leak out into the environment. This appliance complies with all relevant legal safety requirements. Improper use can, however, present a risk of both personal injury and material damage.

To avoid the risk of accidents and damage to the appliance, please read these instructions carefully before installation and before using it for the first time. They contain important notes on the installation, safety, operation and care of the appliance.

Keep these instructions in a safe place and pass them on to any future user.

Correct application

This appliance is intended for domestic use only for the cool storage of foodstuffs as well as for storing deep frozen food, freezing fresh food and for preparing ice.

Any other usage is not supported by the manufacturer and could be dangerous. The manufacturer cannot be held liable for damage caused by incorrect or improper use of the appliance.

► This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Safety with children

► This appliance is not a toy! To avoid the risk of injury, do not allow children to play on or near it or to play with the controls. Older children may only use the appliance if its operation has been clearly explained to them and they are able to use it safely, recognising the dangers of misuse.

▶ Keep children away from the appliance at all times and supervise them whilst you are using it. Do not allow children to play with the appliance, for example to climb inside the drawers or to swing on the door.

Technical safety

Before setting up the appliance, check it for any externally visible damage.

Do not install and use a damaged appliance.

► This appliance contains the coolant Isobutane (R600a), a natural gas which is environmentally friendly. Although it is flammable, it does not damage the ozone layer and does not increase the greenhouse effect. The use of this environmentally friendly coolant has, however, led to a slight increase in the noise level of the appliance. In addition to the noise of the compressor, you might be able to hear the coolant flowing around the system. This is unavoidable, but does not have any adverse effect on the performance of the appliance.

Care must be taken during the transportation and installation of the appliance that no parts of the cooling system are damaged. Leaking coolant can damage the eyes.

In the event of any damage:

- avoid open fires and anything which creates a spark,

- disconnect from the mains,

- air the room in which the appliance is located for several minutes and

- contact the Service Department for advice.

► The more coolant there is in an appliance, the larger the room it should be installed in. In the event of a leakage, if the appliance is in a small room, there is the danger of combustible gases building up. For every 8 g of coolant at least 1 m³ of room space is required. The amount of coolant in the appliance is stated on the data plate inside the appliance.

Before connecting the appliance to the mains supply, make sure that the rating on the data plate corresponds to the voltage and frequency of the household supply.

This data must correspond in order to avoid the risk of damage to the appliance. Consult a qualified electrician if in any doubt.

► The electrical safety of this appliance can only be guaranteed when continuity is complete between the appliance and an effective earthing system which complies with local and national safety regulations. It is most important that this basic safety requirement is present and regularly tested and where there is any doubt, the household wiring system should be inspected by a qualified electrician. The manufacturer cannot be held liable for the consequences of an inadequate earthing system (e.g. electric shock).

▶ If the connection cable is faulty it must only be replaced by a Miele approved service technician to protect the user from danger. Safe operation of the appliance is only assured if it has been installed and connected in accordance with these operating and installation instructions.

▶ This equipment may only be used in mobile installations such as ships, caravans, aircraft etc. if a risk assessment of the installation has been carried out by a suitably qualified engineer.

Installation work, maintenance and repairs may only be carried out by suitably qualified and competent persons in accordance with current national and local safety regulations. Repairs and other work by unqualified persons could be dangerous and the manufacturer will not be held liable. Ensure current is not supplied to the appliance until after maintenance or repair work has been carried out.

The appliance is only completely isolated from the electricity supply when:

- it has been switched off at the wall socket and the plug has been withdrawn.
- the mains fuse is withdrawn, or
- the screw-out fuse is removed (in countries where this is applicable).

Do not connect the appliance to the mains electricity supply by an extension lead.

Extension leads do not guarantee the required safety of the appliance (e.g. danger of overheating).

Correct use

Never handle frozen food with wet hands. Your hands may freeze to the frozen food. Danger of frost burn.

▶ Do not take ice cubes out with your bare hands and never place ice cubes or ice lollies in your mouth straight from the freezer.

The very low temperature of the frozen ice or lollies can cause frost burn to the lips and tongue.

Do not refreeze thawed or partially thawed food. Defrosted food should be used up as quickly as possible, as food soon loses its nutritional value and goes off. Defrosted food may only be re-frozen after it has been cooked.

Do not store explosive materials in the appliance or any products containing propellants (e.g. spray cans). Thermostats switching on may produce sparks which could present a fire hazard. Flammable compounds could explode.

Do not use any electrical equipment in this appliance, e.g. ice cream makers. Danger of sparking and explosion!

If storing alcohol with a high percentage proof, make sure it is tightly closed and stored upright. Danger of explosion.

▶ Do not store cans or bottles containing carbonated drinks or liquids which could freeze in the freezer. The cans or bottles could explode. Danger of injury and damage to the appliance.

Warning and Safety instructions

When cooling drinks quickly in the freezer, make sure bottles are not left in for more than one hour; otherwise they could burst. This could result in injury or damage.

▶ Observe the "use by" dates given on food to avoid the risk of food poisoning. Storage times will depend on several factors, including the freshness and quality of the food as well as the temperature at which it is stored. Follow the instructions given on food manufacturer's packaging on storage conditions required as well as the "use by" date.

Do not use sharp edged objects to

- remove frost and ice,
- separate frozen foods and remove ice trays. They will damage the evaporator, causing irreversible damage to the appliance.

Never place electric heaters or candles in the appliance to defrost it. These can damage the plastic parts.

Do not use defrosting sprays or de-icers, as they might contain substances which could damage the plastic parts or which could cause the build-up of gases and pose a danger to health.

▶ Do not use any oils or grease on the door seals, as these will cause the seals to deteriorate and become porous with time.

▶ If storing bottles of oil or food containing high levels of fat or oil in the appliance, take care not to let the fat or oil come into contact with plastic components. These can cause stress cracks to occur in the plastic components.

Do not block the ventilation gaps in the appliance as this would impair the efficiency of the appliance, increase the electricity consumption and could cause damage to the appliance.

► The appliance is designed for use within certain climate ranges (ambient temperatures), and should not be used outside this range. The climate range for your appliance is stated on the data plate inside the appliance. Installing it in a room with too low an ambient temperature, e.g. a garage, can lead to the appliance switching off for longer periods so that it cannot maintain the required temperature.

▶ Do not use a steam-cleaning appliance to defrost or clean this appliance. Pressurised steam could reach the electrical components and cause a short circuit.

▶ In countries where there are areas which may be subject to infestation by cockroaches or other vermin, pay particular attention to keeping the appliance and its surroundings in a clean condition at all times. Any damage which may be caused by cockroaches or other vermin will not be covered by the guarantee.

Disposal of your old appliance

Before disposing of an old appliance, first make the door latch or lock unusable.

This way you will prevent children from accidentally locking themselves in and endangering their lives.

Be careful not to damage any part of the pipework whilst awaiting disposal, e.g. by

- puncturing the refrigerant channels in the evaporator.
- bending any pipework.
- scratching the surface coating.

Splashes of refrigerant can damage the eyes.

The manufacturer cannot be held liable for damage caused by non-compliance with these Warning and Safety instructions.

How to save energy

	Normal energy consumption	Increased energy consumption	
Installation site	In a ventilated room.	In an enclosed, unventilated room.	
	Protected from direct sunlight.	In direct sunlight.	
	Not situated near to a heat source (radiator, oven).	Situated near to a heat source (radiator, oven).	
	Where the ideal ambient room temperature is approx. 20°C.	Where there is a high ambient room temperature.	
Temperature setting with a thermostat which is approximate (set in stages).	With a medium setting of 2 to 3.	With a high setting: the lower the temperature in the compartment, the higher the energy consumption.	
Temperature setting with a thermostat which is exact to the degree (digital display).	Cellar section 8 to 12°C	On appliances with winter setting, please make sure that the winter setting is switched off when the	
	Refrigerator section 4 to 5 °C	ambient temperature is warmer than 16 °C.	
	PerfectFresh zone just above 0 °C		
	Freezer section -18°C		
	Wine storage section 10 to 12 °C		
Use	Only open the doors when necessary and for as short a time as possible.	Frequent opening of the doors for long periods will cause a loss of coldness.	
	Store food in an organised way.	If food is not stored in an organised way, searching for an item will mean the door is open for longer.	
	Allow hot food and drinks to cool down before placing them in the appliance.	Placing hot food in the appliance will cause the compressor to run for a long time, as the appliance will have to work harder to lower the temperature.	
	Store food covered or packaged.	The evaporation or condensation of liquids will cause a loss of coldness in the refrigerator.	
	Place frozen food in the refrigerator to defrost.		
	Do not over-fill the appliance to allow air to circulate.		

How to save energy

	Normal energy consumption	Increased energy consumption
Defrosting	Defrost the freezer compartment when a layer of ice 0.5 cm thick has built up.	A layer of ice hinders the cold from reaching the frozen food, and causes an increase in energy consumption.

Before using for the first time

Clean the inside of the appliance and the accessories with warm water and a little washing-up liquid, and then dry with a soft cloth.

Important:

To ensure the correct functioning of the appliance, let it stand for between 1½ and 2 hours after transporting it to its final location before connecting it to the mains.

Switching on

The refrigerator and freezer sections are switched on together with the master dial on the right hand side of the control panel.



Using a coin turn the master On/Off dial in a clockwise direction away from the "0" position.

Forcing it beyond its range will damage it. Turn it only as far as it will go, then turn it back again.

The temperature display for the refrigerator section will light up and the interior lighting will come on when door is opened.

The temperature display for the freezer section will light up. The alarm indicator light will also light up. It will go out when the temperature in the freezer is cold enough. Allow the appliance to run for a few hours before placing food in it. This will ensure that the temperature is sufficiently low.

Cool pack

Place the cool pack in the top drawer or, to save space, on the freezer tray. The cool pack will be at its most effective after it has been in the freezer for approx. 24 hours.

Switching off

 Using a coin turn the On/Off master dial in an anti-clockwise direction back to the "0" position.

The temperature displays will go out out and the cooling process is switched off.

To switch the refrigerator section off separately

The refrigerator section can be switched off without having to switch off the freezer section. This is useful e.g. whilst on holiday.



 Using a coin turn the On/Off dial for the refrigerator section in an anti-clockwise direction back to the "0" position.

The temperature display for the refrigerator section will go out and the refrigerator section will switch off.

The appliance will start cooling.

To switch the refrigerator section on again

Using a coin turn the On/Off dial for the refrigerator section in a clockwise direction away from the "0" position.

The refrigerator section temperature display will light up. The refrigerator section will start cooling. The interior light will come on when the door is opened.

Switching off for longer periods of time

If the appliance is not going to be used for a longer period of time, e.g. whilst on holiday,

- switch the appliance off,
- switch off at the wall socket and withdraw the plug,
- clean the appliance out and
- leave the doors ajar to air the appliance.

If, during a long absence, the appliance is switched off but not cleaned out and the doors are left shut, there is a danger of mould and odours building up inside the appliance.

The correct temperature

It is very important to set the correct temperature for storing food in the appliance. Micro-organisms will cause food which is not stored at the correct temperature to deteriorate rapidly. Temperature influences the growth rate of these micro-organisms. Reducing the temperature reduces their growth rate.

The temperature in the appliance will rise:

- the more often the door is opened and the longer it is kept open,
- if too much food is stored in it at once,
- the warmer the food is which is being put into it,
- the higher the ambient temperature surrounding the appliance.
 The appliance is designed for use in specific ambient temperatures (climate ranges). Do not use in ambient temperatures for which it is not designed.

... in the refrigerator section

We recommend a temperature of **5** °C in the middle of the refrigerator section.

... in the freezer section

To freeze fresh food and to store frozen food for a long time, a temperature of **-18 °C** is required. At this temperature the growth of micro-organisms is generally halted. As soon as the temperature rises above -10 °C, the micro-organisms become active in the food again so that it cannot be kept as long. For this reason, partially defrosted or defrosted food must not be re-frozen. Food may be re-frozen once it has been cooked, as the high temperatures achieved when cooking destroy most micro-organisms.

Setting the temperature

The temperatures for the refrigerator and freezer sections are set using the appropriate temperature dial.

Using a coin turn the dial for the refrigerator section or for the freezer section in a clockwise direction away from the "0" position.

Turn it only as far as it will go, then turn it back again. Turning it beyond its range would damage it.

Temperature displays

The temperature displays on the control panel always show the **required** temperature.

For example, if you want to set the temperature for the refrigerator section at $5 \,^{\circ}\text{C}$,

turn the temperature dial for the refrigerator section clockwise from 0 until 5 lights up on the control panel.

If you want the temperature in the freezer section to be -18 °C,

 turn the temperature dial for the freezer section clockwise from 0 until
 18 lights up on the control panel. Your appliance has been fitted with a warning system which ensures that the temperature in the freezer cannot rise unnoticed. An alarm will sound and the alarm indicator light will flash if the temperature becomes too warm.

For example, the alarm may sound and the alarm indicator light may flash,

 if you freeze a large amount of food at once without having switched on the Super freeze function beforehand.

Depending on the temperature in the freezer, you should check the condition of the food. If food has defrosted or started to defrost, check that it is still safe to use, and if so, use it as quickly as possible. Defrosted food may only be re-frozen after it has been cooked.

Activating the alarm system

The alarm system is always active. It does not have to be switched on manually.

Switching the alarm off early

The alarm will stop and the indicator light will go out when the temperature reaches the correct level again. However, if the noise disturbs you, you can switch the alarm off before this if you wish.



Press the alarm off button.

The alarm will stop. The indicator light will stay on until the correct temperature has been reached. The alarm system is then ready should it be needed again.

Freezing fresh food

Fresh food should be frozen as quickly as possible. This way the nutritional value of the food, its vitamin content, appearance and taste are not impaired.

Food which takes a long time to freeze will lose more water from its cells, which then shrink.

During the defrosting process, only some of this water is reabsorbed by the cells; the rest collects around the food. In practice this means that the food loses a large degree of its moisture.

If food is frozen quickly, the cells have less time to lose moisture, so they shrink less. As there is not so much moisture loss, it is easier for the food to reabsorb it during the defrosting process, and very little water collects around the defrosted food.

Super freeze

Switch the Super freeze function on before putting fresh food into the freezer section.

Exceptions:

- when putting in food that is already frozen.
- when freezing less than 2 kg fresh food daily.

Switching on Super freeze

When freezing small quantities of food in the freezer section, the Super freeze function should be switched on **6 hours beforehand**. When freezing **the maximum load of food** the Super freeze function should be switched on **24 hours beforehand**.



 Press the Super freeze button. The Super freeze indicator light will come on.

The appliance works at full power to lower the temperature in the appliance.

Switching off Super freeze

The Super freeze function will switch off automatically after approx. 65 hours. The indicator light will go out and the appliance will run at normal power again.

To save energy the Super freeze function can be switched off once a **constant** temperature of -18 °C or colder has been reached in the freezer section. You should also check the temperature inside the appliance from time to time.

Press the Super freeze button. The Super freeze indicator light will go out, and the appliance will continue to operate at normal power.

Dynamic cooling 👃

When the Dynamic cooling function is not switched on, the natural circulation of air in the appliance will cause different temperature zones in the refrigerator as the cold, heavy air will sink to the lowest section of the appliance. You should bear this in mind when placing food in the appliance (see "Using the refrigerator efficiently"). However, if you are placing a large amount of food in the refrigerator at any one time, it is a good idea to switch on Dynamic cooling. This way you can distribute the temperature inside the appliance to all areas more evenly so that all the food will be chilled to about the same degree.

The temperature is set as normal with the temperature control.

Dynamic cooling should also be selected when:

- the ambient temperature in the room is high (above approx. 30 °C), and
- the room humidity level is high.

Switching on Dynamic cooling

■ Press the switch for Dynamic cooling above the fan to *k*.

Switching off Dynamic cooling

Press the switch for Dynamic cooling to "0".

The fan automatically switches off when the door is open.

Different storage zones

Due to the natural circulation of the air in the appliance, there are different temperature zones in the refrigerator. Cold, heavy air sinks to the lowest section of the appliance. Make use of the different zones when placing food in the appliance.

Warmest area

The warmest area is in the top section of the door. Use this for storing butter and cheese.

Coldest area

The coldest area in a refrigerator is directly above the vegetable containers.

Use this for all delicate and highly perishable food, e.g.

- fish, meat, poultry,
- sausage products, ready meals,
- dishes or baked goods containing eggs or cream,
- fresh dough, cake mixtures, pizza or quiche dough,
- soft cheese and other dairy products,
- pre-packed vegetables and other fresh food with a label stating it should be kept at a temperature of approx. 4 °C.

Do not store explosive materials in the appliance or any products containing propellants (e.g. spray cans). Danger of explosion.

If storing alcohol with a high percentage proof, make sure it is tightly closed, and store upright.

If storing bottles of oil or food containing high levels of fat or oil in the appliance, take care not to let the fat or oil come into contact with plastic components. These can cause stress cracks to occur in the plastic components.

Food must not touch the back wall of the appliance, as it may freeze to the back wall.

Food which should not be stored in a refrigerator

Not all food is suitable for storing in the refrigerator. These include:

- Fruit and vegetables which are sensitive to cold, such as bananas, avocado pears, papaya, passion fruit, aubergines/eggplant, peppers/capsicum, tomatoes and cucumbers
- Fruit which is not yet ripe
- Potatoes
- Some hard cheeses, e.g. Parmesan

Storing food correctly

Store food covered or packaged. This will prevent food smells or tastes from affecting other foods, and prevent food from drying out and also any cross-contamination of bacteria. The growth of bacteria, such as salmonella, can be avoided by setting the correct temperature and maintaining good standards of hygiene.

Fruit and vegetables

Fruit and vegetables can be stored loose in the vegetable containers. However, you should bear in mind that some types of vegetables give off a natural gas which speeds up the rate at which food perishes. Some fruit and vegetables react strongly to this gas and should not be stored together.

Examples of fruit which produce a large amount of this natural gas are:

Apples, apricots, pears, nectarines, peaches, plums, avocado pears and figs.

Examples of fruit and vegetables which react strongly to the natural gases given off by other types of fruit and vegetables are:

Kiwis, broccoli, cauliflower, Brussels sprouts, mangos, honeydew melons, apples, apricots, cucumbers, tomatoes, pears, nectarines and peaches.

Unpacked meats and vegetables

Different types of unpacked meats and vegetables must be kept separate. To avoid any microbiological cross-contamination, these foods may only be stored together if they are wrapped.

Protein rich foods

Please note that foods rich in protein deteriorate faster than others. Shell fish, for example, deteriorates faster than fish, and fish deteriorates faster than meat.

Meat

Meat should be stored loosely covered in suitable containers or packaging. Allowing the surface of the meat to dry slightly helps to prevent the growth of bacteria. To prevent the risk of bacterial cross-contamination meat should not be allowed to come into contact with other foods.

Moving the shelves

The shelves can be adjusted according to the height of the food.

- Raise the shelf at the front, pull it out half way, and then lift it out.
- With the rear barrier facing upwards, place the shelf at the required position.

The rear barrier must face upwards to prevent food from touching the back of the appliance and freezing to it.

The shelf which does not have this rear barrier must always be fitted in the top shelf position. This gives you more flexibility for arranging storage within the refrigerator. (depending on model)

Split shelf

In order to accommodate tall items in the appliance, one of the shelves is divided. The front section can be pushed under the rear section.

Pull the front half of the glass shelf forwards slightly and then push it carefully under the rear half.

Adjusting the door shelves

- Push the door shelf upwards, then remove it by pulling it forwards.
- Replace the door shelf at the required position. Ensure that it is securely pushed back into position.

Moving the bottle divider

(depending on model)

The bottle divider can be moved to the left or right to ensure that bottles are held securely in position when the door is opened and shut.

Maximum freezing capacity

To ensure that fresh food placed in the freezer freezes through to the core as quickly as possible, the maximum freezing capacity must not be exceeded. The maximum freezing capacity for freezing within a 24-hour period is given on the data plate "Freezing capacitykg/24 hrs".

Storing frozen food

When buying frozen food to store in your freezer, check

- that the packaging is not damaged,
- the use-by date,
- the temperature at which the frozen food is being stored in the shop. The length of time it can be kept is reduced if it has been stored at a temperature warmer than -18 °C.
- Buy frozen food once you have finished the rest of your shopping, and wrap it in newspaper or use a cool bag or cool box to transport it.
- Store it in the freezer as soon as possible.

Never re-freeze partially or fully defrosted food. Consume defrosted food as soon as possible as it will lose its nutritional value and spoil if left for too long. Defrosted food may only be re-frozen after it has been cooked.

Home freezing

Only freeze fresh food which is in a good condition.

Hints on home freezing

- The following types of food are suitable for freezing:
 Fresh meat, poultry, game, fish, vegetables, herbs, fresh fruit, dairy products, pastry, leftovers, egg yolks, egg whites and a range of pre-cooked meals.
- The following types of food are not suitable for freezing: Grapes, lettuce, radishes, sour cream, mayonnaise, eggs in their shells, onions, whole raw apples and pears.
- To retain colour, taste and vitamin C, vegetables should be blanched after they have been trimmed and washed. To blanch: bring a large saucepan of water to the boil, immerse the vegetables in the fast boiling water for 2-3 minutes, depending on variety. Remove, and plunge into ice-cold water to cool quickly. Drain and pack ready for freezing.
- Lean meat freezes better than fatty meat, and can be stored for considerably longer.
- To prevent chops, steaks, cutlets or rolled meat from freezing together in solid blocks when packed, separate with a sheet of plastic freezer film.

- Do not season fresh foods or blanched vegetables before freezing. Only season cooked food lightly before freezing, but care should be taken as the taste of some spices alters when frozen.
- Do not place hot foods or drinks in the freezer. This causes already frozen food to thaw, and increases the energy consumption considerably. Allow hot foods and drinks to cool down before placing them in the freezer.

Packing

Freeze food in portions.

Unsuitable packing material

- wrapping paper
- grease-proof paper
- cellophane
- bin bags
- plastic carrier bags

Suitable packing material

- plastic freezer film
- freezer bags
- aluminium foil
- freezer containers
- Expel as much air as possible from bags etc. before sealing them, to prevent freezer-burn on food.
- Close the packaging tightly with
 rubber bands

 - plastic clips
 - string or bag ties
 - freezer tape.

Freezer bags may also be sealed using home heat sealing kits.

Make a note of the contents and the date of freezing on the packaging.

Before placing food in the freezer

When freezing more than 2 kg of fresh food, switch on the Super freeze function for some time before placing the food in the freezer section (see "Super freeze").

Placing food in the freezer section

Food to be frozen can be placed anywhere in the freezer section.

Large quantities can be placed directly onto the glass cold plates to freeze the food quickly. To do this first take out one or more freezer drawers.

When freezing large items e.g. a turkey or a large joint of meat, the glass plate in between two of the freezer drawers can be removed to give more room. This way food can be stored in the space of two drawers.

Each drawer and glass cold plate can be loaded with a maximum of 25 kg.

The bottom freezer drawer must not be taken out of the appliance.

If you remove the top drawer make sure that you do not block the ventilation slits in the back wall of the appliance. They are important for trouble-free operation of the appliance.

Freezing and storing food

- Place the food flat in the bottom of the drawers or on the glass cold plates so that it freezes through to the core as quickly as possible.
- Make sure that the packaging and containers are dry to prevent them sticking together when frozen.

When freezing, make sure that food already frozen does not come into contact with fresh food being frozen as this could cause the frozen food to begin to defrost.

Freezer calendar

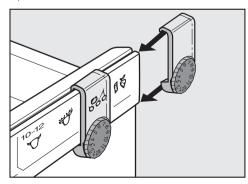
The freezer calendar on the freezer drawer gives the length of time which various foods can be stored for effectively.

Where the storage time given on the packaging differs, follow the advice on the packaging.

Marker system for frozen food

Markers serve as a reminder of how long food has been stored.

Each freezer drawer has two slide markers with dials. The months are represented on the dials as 1 - 12.



■ Slide the markers onto the guide runners on the edge of the drawers.

Use the markers to indicate the type of food being frozen, and turn the dials to the appropriate number to indicate the month the food was first placed in the freezer.

Defrosting

Frozen food can be defrosted in different ways:

- in a microwave oven,
- in an oven using the "Fan" or "Defrost" setting,
- at room temperature,
- in the refrigerator,
- in a steam oven.

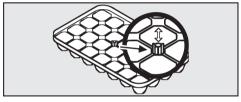
Poultry It is particularly important to observe food hygiene rules when defrosting poultry. Do not use the liquid from defrosted poultry. Pour it away and wash the container it was in, the sink and your hands. Danger of salmonella poisoning!

Fruit should be defrosted at room temperature in its packing, or in a covered bowl.

Most vegetables can be cooked while still frozen. Just put straight into boiling water or hot fat. The cooking time is slightly less than that of fresh vegetables. Never re-freeze partially or fully defrosted food. Consume defrosted food as soon as possible as it will lose its nutritional value and spoil if left for too long. Defrosted food may only be re-frozen after it has been cooked.

Ice cube tray

(with release button, depending on model)



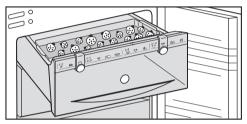
- Press down the release button on the ice cube tray and fill the tray with water. Any excess will flow out through the outlet.
- Now pull the release button up to seal the ice cube tray. Place the tray on the bottom of one of the freezer drawers.
- Once frozen, use a blunt instrument, for example a spoon handle, to remove the ice tray from the freezer compartment.
- Ice cubes can be removed easily from the tray by twisting the tray gently or by holding it under cold running water for a short while.

Cooling drinks

If bottles are placed in the freezer section for rapid cooling, **make sure they are not left in for more than one hour**, as they could burst.

Freezer tray

The freezer tray is useful for freezing small items such as berries and vegetables. They can be frozen individually and therefore maintain their shape when defrosted.



- Space the food out loosely on the tray.
- Hang the tray in one of the upper freezer drawers.

Leave food for 10 - 12 hours to freeze thoroughly on the tray. Transfer it to a freezer bag or suitable container once frozen. Place the bag or container in the freezer drawer.

Cool pack

The cool pack prevents the temperature in the freezer rising too quickly in the event of a power cut.

Place the cool pack in the upper drawer directly on top of food, or on the freezer tray to save space. The cool pack will be at its most effective after it has been in the freezer for approx. 24 hours.

If there is a power cut, place the cool pack directly on top of the frozen food in the upper drawer so that the food will be kept cold for as long as possible.

When placing fresh food in the freezer, use the cool pack to separate the fresh food from the food which is already frozen so that the frozen food does not begin to thaw.

The cool pack can also be used in a cool bag to keep food or drinks cool for a short period of time.

Refrigerator section

The refrigerator defrosts automatically.

Condensate and frost can build-up on the back wall of the refrigerator section whilst it is in use. You do not need to remove this, as it will defrost and evaporate automatically with the warmth generated by the appliance.

The condensate is drained away via a channel and drain hole into an evaporation system at the back of the appliance.

Ensure that the condensate channel and drain hole are kept clean and are never blocked so that condensate can flow away without hindrance.

Freezer section

This appliance is equipped with a "Frost free" system. The freezer section defrosts automatically.

The moisture generated in the appliance collects on the condenser and is automatically defrosted and dissipated by the condenser from time to time.

This automatic defrosting system enables the freezer section to remain permanently ice-free, however, the food stored in the freezer section will not defrost. Never use cleaning agents containing abrasive substances such as sand, soda, acids or chemical solvents. "Non-abrasive" cleaning agents are

also unsuitable as they can cause matt areas to appear.

Make sure that water cannot get into the electronic unit, into the light or into the ventilation gaps.

Do not let water get into the drainage channel and drain hole when cleaning.

Do not use steam cleaning apparatus to clean the appliance. Steam could reach the electrical components and cause a short circuit.

The data plate located inside the appliance must not be removed. It contains information which is required in the event of a service call.

Before cleaning

- Switch the appliance off, switch off at the socket and remove the plug.
- Take any food out of the appliance and store it in a cool place.
- Take out any removable parts, e.g. shelves, for cleaning.
- The stainless steel trim can be pulled off the front edge of the refrigerator section shelves for cleaning.

Cleaning the outer casing, the interior and accessories

Use warm water with a little washing up liquid. Wash all accessories by hand only. Do not wash in a dishwasher. The butter dish is, however, dishwasher safe.

- Clean the appliance at least once a month.
- Clean the condensate channel and drain hole frequently, so that condensate can drain away unhindered. Use a straw or similar to clear the drain if necessary.
- After cleaning, wipe the outer casing, the interior and accessories with a damp cloth and dry with a soft cloth. Leave the doors open to air the appliance for a short while.

Door handle

Aluminium is affected by the way that light falls on it, by the surrounding environment and by the angle you observe it from.

The aluminium coloured handle may suffer discolouration or damage if soiling is left on it for too long. Remove any soiling straight away.

Warning: The handle is susceptible to scratches and abrasions.

E-Cloth

A microfibre "E-Cloth" is available from the Miele UK Spare Parts Department which is suitable for cleaning surfaces such as stainless steel, glass, plastic and chrome without the use of chemicals.

In addition to the cleaning agents mentioned previously, you should also avoid

- stainless steel cleaners,
- cleaning agents containing descaling agents,
- cleaning agents containing chloride,
- abrasive cleaning agents, e.g. powder cleaners and cream cleaners.
- abrasive sponges, e.g. pot scourers, or sponges which have been previously used with abrasive cleaning agents.
- dishwasher detergent.

Ventilation gaps

The ventilation gaps should be cleaned regularly with a brush or vacuum cleaner. A build-up of dust will increase the energy consumption of the appliance.

Door seals

Do not use any grease or oil on the door seals as these will cause the seals to deteriorate and become porous over time. The door seals should be cleaned regularly with clean water and then wiped dry with a soft cloth.

Metal grille at the back of the appliance

The metal grille at the back of the appliance (heat exchanger) should be dusted at least once a year. A build-up of dust will increase the energy consumption of the appliance.

When cleaning the grille, make sure that the pipework and other components do not get broken or damaged in any way.

After cleaning

- Replace all shelves and accessories in the refrigerator section.
- Place food back in the refrigerator section, close the appliance doors, insert the plug in the socket and switch the refrigerator section and the freezer section on.
- Switch on the Super freeze function so that the freezer section can cool down quickly. The indicator light will come on.
- Once the temperature in the freezer section has reached the required temperature, place the food back in the freezer drawers and slide the drawers back into the freezer section.
- Switch off Super freeze by pressing the Super freeze button when the temperature in the freezer is a constant -18 °C or colder. The indicator light will go out.

Repairs to electrical appliances should only be carried out by a suitably qualified and competent person in accordance with local and national safety regulations. Repairs and other work by unqualified persons could be dangerous. The manufacturer cannot be held liable for unauthorised work.

Some minor problems can be corrected without contacting the Miele Service Department.

What to do if . . .

- ... the appliance does not get cool.
- Make sure that the temperature selectors are not pointing to the "0" position.
- Check that the plug is correctly inserted in the socket and switched on.
- Check that the fuse is not defective and that the mains fuse has not blown. If it has, contact the Miele Service Department.

... the door to the freezer section will not open because it has been opened and closed too many times in succession.

This is not a fault. The suction caused by opening and closing the door is preventing the door from opening. Wait a few minutes and then try again. It should now open without force.

... the temperature in the refrigerator section or freezer section is too low.

- Turn the temperature selector to a warmer setting.
- The Super freeze function is still on and the Super freeze indicator light is on.

The Super freeze function switches itself off automatically after approx. 65 hours.

... the appliance is switching in too frequently and for too long.

- Check whether the ventilation gaps have been covered over or become dusty.
- Check whether the metal grille (heat exchanger) at the back of the appliance has become too dusty.
- The doors have been opened too frequently, or a large amount of fresh food has been put in at once for freezing.
- Check that the doors have been closed properly.

... food has frozen together.

Use a blunt instrument, e.g. a spoon handle or plastic scraper, to prise it apart carefully.

... the alarm sounds and the alarm indicator light flashes.

The temperature in the freezer section is too warm, because

- a large amount of food has been frozen at once without switching on the Super freeze function. The alarm will stop and the indicator light will go out when the temperature has reached the correct level again.
- the compressor is faulty. Call the Service Department.

Depending on the temperature in the freezer, you should check the condition of the food. If food has defrosted or started to defrost, check that it is still safe to use, and if so, use it as quickly as possible. Defrosted food may only be re-frozen after it has been cooked.

... the Super freeze indicator light and one of the temperature display lights are both flashing at the same time.

There is a fault. Call the Service Department.

... the temperature displays do not light up.

Check to see if the super freeze button indicator light comes on when the super freeze button is pressed.

If this lights up, then the temperature displays are faulty. Call the Miele Service Department.

- If the Super freeze indicator light does not come on either, then check whether
 - the plug is correctly inserted in the socket.

- the mains fuse has blown. If it has there is a fault. Call the Miele Service Department.

... the Super freeze indicator light does not light up, even though the appliance is working.

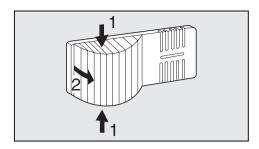
The indicator light is defective. Call the Service Department.

... the interior lighting is not working.

Was the refrigerator section door left open for too long? The lighting switches itself off automatically after approx. 15 minutes.

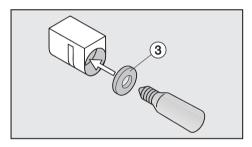
If this is not the case, then the lamp is defective.

Disconnect the appliance from the mains. Switch off at the wall and withdraw the plug from the socket, or disconnect the mains fuse or remove the screw-out fuse in countries where this is applicable.



- Press the sides of the lamp cover together ①, disengage the cover and unclip it at the rear ②.
- Unscrew the lamp and replace it with a new one.

Lamp specification: 220 - 240 V, max. 25 W, E 14 fitting.



- Screw the new lamp into the connection. Ensure it goes in correctly and make sure that seal makes a tight fit.
- Replace the cover by clipping it in at the rear and then pressing it in at the sides.

... the floor of the refrigerator is wet.

The drain hole is blocked.

Clean the condensate channel and drain hole.

If you still cannot remedy the fault having followed these suggestions, please contact the Miele Service Department.

To prevent unnecessary loss of temperature it is advisable not to open the doors while waiting for the appliance to be serviced.

Noises

Normal noises	What causes them
Brrrrr	Humming noise made by the motor (compressor). This noise can get louder for brief periods when the motor is switching on.
Blubb, blubb	A gurgling noise can be heard when coolant is circulating through the pipes.
Click	Clicking sounds are made when the thermostat switches the motor on and off.
Sssrrrr	On multi-zone and frost-free appliances you can sometimes just hear the movement of air circulating inside the appliance.

Remember that the noise of the compressor and the coolant circulating in the system is unavoidable.

Noises that you can easily rectify	What causes them, and what can you do about them?
Rattling, vibrating	The appliance is uneven: Realign the appliance using a spirit level, by raising or lowering the screw feet underneath the appliance.
	The appliance is touching another appliance or piece of furniture: Move it away.
	Drawers, baskets or shelves are unstable or sticking: Check all removable items and refit them correctly.
	Are any bottles or containers unstable or knocking against each other? Separate them.
	The transport cable clips are hanging loose at the back of the appliance: Remove the clips.

In the event of a fault which you cannot correct yourself, or if the appliance is under guarantee, please contact:

- your Miele Dealer or Chartered Agent

or

 the Miele Customer Contact Centre (see back cover for address).

When contacting your Dealer/Chartered Agent or the Customer Contact Centre, please quote the model and serial number of your appliance. This information is given on the data plate.

Please note that telephone calls may be monitored and recorded for training purposes.

Electrical connection U.K.

All electrical work should be carried out by a suitably qualified and competent person in strict accordance with current local and national safety regulations (BS 7671 in the UK).

The appliance is supplied with a mains cable and moulded plug ready for connection to an a.c. single phase 220-240 V 50 Hz supply.

Please ensure that the connection data quoted on the data plate match the household mains supply.

Connection should be made via a suitable switched socket which is easily accessible. For extra safety it is advisable to install a suitable residual current device (RCD).

Do not connect the appliance to the mains electricity supply by an extension lead. Extension leads do not guarantee the required safety of the appliance (e.g. danger of overheating).

The appliance must not be connected to an inverter and must not be used with a plug adapter as these can cause damage to the appliance's electronic unit.

Non-rewireable plugs (BS 1363)

The fuse cover must be re-fitted when changing the fuse, and if the fuse cover is lost, the plug must not be used until a suitable replacement is obtained. The colour of the correct replacement cover is that of the coloured insert in the base of the plug, or the colour that is embossed in words in the base of the plug (as applicable to the design of the plug fitted).

Replacement fuses should be ASTA approved to BS 1362 and have the correct rating. Replacement fuses and fuse covers may be purchased from your local electrical supplier.

WARNING THIS APPLIANCE MUST BE EARTHED

Do not place any appliance which gives off heat, such as a toaster or microwave oven, on top of this appliance, as this would increase the appliance's energy consumption.

Important: Appliances without side wall heating must not be installed "side-by-side" next to another refrigerator or freezer. This could cause condensation between the two appliances and subsequent damage.

Location

The appliance should be installed in a dry, well-ventilated room. The room temperature should not go above or below the climate range for which the appliance is designed. The higher the ambient temperature of

the room, the more energy the appliance requires to operate.

It should not be installed where it is exposed to direct sunlight or directly adjacent to a heat-producing appliance such as an oven or a radiator.

Climate range

The appliance is designed for use within certain climate ranges (ambient temperatures), and should not be used outside this range. The climate range of this appliance is stated on the data plate inside the appliance.

Climate range	Ambient room temperature
SN	+10 °C to +32 °C
N ST	+16 °C to +32 °C +18 °C to +38 °C
Т	+18 °C to +43 °C
SN-ST	+10 °C to +38 °C
SN-T	+10 °C to +43 °C

Operating in a room which is too cold will cause the cooling system to switch off for too long causing the internal temperature in the appliance to rise with the risk of food deteriorating and going off.

Ventilation

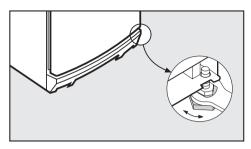
Air at the back of the appliance gets warm. To ensure sufficient ventilation, the ventilation gaps must not be covered over. The air inlet and outlet must not be covered or blocked in any way. They should be dusted on a regular basis.

Installation

- Remove any cable clips from the back of the appliance.
- Check that all parts at the back of the appliance are unhindered. Remove any hindrance.
- Carefully push the appliance into position. The appliance can be placed directly against a wall.

Installation

Aligning the appliance



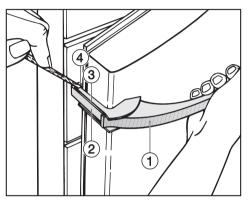
To align the appliance adjust the feet using the spanner supplied.

Changing the door hinging

The appliance is supplied right-hand hinged. If left hand door hinging is required, follow the instructions below.

Removing the door handles:

First the side sections of the handles must be removed:



- Pull door handle ① towards you. Side section ② slides back, creating a gap ④ between side section ② and mounting plate ③.
- Place a suitable object (e.g. a spoon handle) in gap ④, and slowly lever the handle towards the door.

Be careful not to let the "spoon handle" slip, causing damage to the appliance.

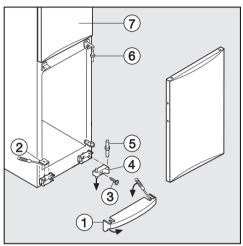
The side section (2) can now be removed.

- Pull side section ② out of the guides on the mounting plate.
- Loosen the 4 screws (Torx 15) in the mounting plate, and remove the handle.

Remove the cover caps from the opposite side, and fit them into the empty holes.

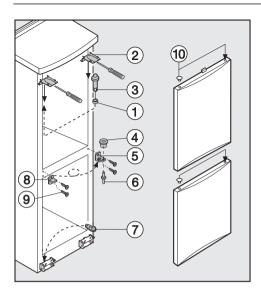
Changing over the doors:

Open the lower door.



- Use a screwdriver to lever plinth ① out, then pull it forwards and out.
- Use a screwdriver to remove cover
 (2), then close the door.
- Remove screw ③ completely.
- Pull door support ④ together with hinge pin ⑤ downwards, then tilt it forwards and take it off.
- Open the lower appliance door, move it downwards and take it off.
- With the upper door ⑦ closed, pull hinge pin ⑥ downwards to remove it.

Changing the door hinging



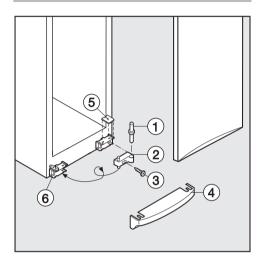
- Open the upper door, and pull it downwards and off. Take care not to lose washer ①.
- Using a screwdriver remove covers
 ②.
- Unscrew upper hinge pin ③ using the spanner supplied, and refit on the opposite side.
- Put covers (2) back on again from behind, and then push them firmly into place.

 Exchange cover (1) in the middle of the appliance with hinge bracket (5). To do this:

Undo screws (1), pull cover (8) and hinge bracket (5) off to the side, turn around, and refit and screw into position on the opposite side.

- Pull bearing bush ④ downwards out of hinge bracket ⑤ and refit it from above into the hinge bracket.
- Remove spacer ⑦ with a screwdriver and refit it on the opposite side.
- Remove plugs 10 from the door bearing bushes in the doors and refit on the opposite side.
- Hang the upper door in hinge pin ③ (remember to use washer ①), then close the door.
- Push middle hinge pin 6 from below through hinge bracket 5 into the upper appliance door.
- Check that the upper door is correctly aligned. If necessary align it using the long slots in hinge bracket
 (5).
- Hang the lower door in hinge bracket
 then close the appliance door.

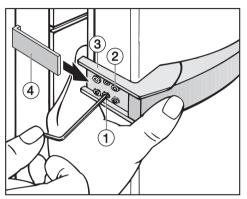
In the following illustration the lower door is not shown in the closed position to make it easier to see what happens next.



- Turn door support ② around, pull hinge pin ① out, and refit on the opposite side.
- Fit both parts into hinge plate (e). To do this push hinge pin (1) through hinge plate (e) into door support (2). Swing the door support in, push upwards and re-assemble with screw (3).
- Align the lower door with the appliance housing using the long slot in hinge plate ⁽⁶⁾. Then tighten screw ⁽³⁾.
- Refit plinth fascia ④, pushing it firmly into position.
- With the lower door open, secure cover (5) to the front of the plinth fascia.

Refitting the handles:

Please make sure you follow the instructions below carefully when you refit the handle. The door seal will be damaged if the handle is fitted incorrectly.



 Loosely attach the handle to the opposite side of the door with the two front screws (2).

Mounting plate ③ must be positioned on the side of the door so that when the door is **closed** it is flush with the side of the appliance.

If this is not the case,

- tighten both grub screws ① with the allen key provided until mounting plate ③ lines up correctly.
- Then tighten all 4 fixing screws ②.

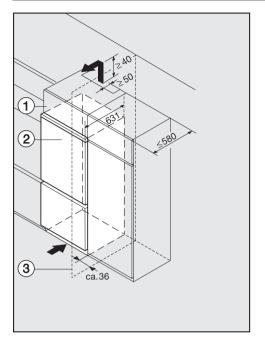
Changing the door hinging

Slide the side section of the handle
 into the guides on the mounting plate until it clicks into place.

It is important to check that the side section of the handle ④ does not come into contact with the door seal when opening the door, as this would damage the door seal permanently.

If, after you have refitted the handle, you find that the side section does touch the door seal when the door is opened:

Realign mounting plate ③ with grub screws ① until the mounting plate and the side section of the handle ④ are at the correct angle and that the side section does not touch the door seal when the door is opened.



The appliance can be installed in a kitchen run. To match the height of the rest of the kitchen, the appliance can be fitted with a suitable top box ①.

A ventilation gap of at least 50 mm depth must be allowed for behind the appliance and top box, if fitted, for air to circulate.

A gap of at least 40 mm is required between the top of the appliance (or top box) and the ceiling to ensure that air can circulate without hindrance. Otherwise the appliance has to work harder, resulting in an increase in electricity consumption. The air inlet and outlet must not be covered or blocked in any way. They should be dusted on a regular basis.

When built into a kitchen run (max. depth 580 mm) the appliance can be installed directly next to a kitchen furniture housing unit. The appliance door (2) will protrude in front of furniture fronts at the sides by 34 mm and by 51 mm in the middle of the door. This enables the doors to be opened and shut without being obstructed.

When **installed next to a wall** (3) a distance of approx. 36 mm is needed on the hinge side between the wall and the appliance, so that the doors and handles have sufficient space for opening.

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